

New York State Department of Transportation

Yellow Flag NB23U4W014

By: Malav Shah

Flag Date: April 26, 2023

Superseding Information:

This flag supersedes: YF NB2228W022

Structure Information

BIN: 1065318

Feature Carried: 278I278IX2M23027

Feature Crossed: 6TH AVENUE

Orientation: 8 - NORTHWEST

Region: 11 - NEW YORK CITY

County: KINGS

Political Unit: City of NEW YORK

Approximate Year Built: 1962

Posted Load Matches Inventory : Yes

Bridge Load Posting (Tons) : Not Posted for Load

Primary Owner: New York State Department of Transportation

Primary Maintenance Responsibility: 12 - State - Subcontracted to another Party

Typical or Main Span Type: 3 - Steel, 02 - Stringer/Multi-Beam or Girder

This Bridge is not a Ramp

Number of Spans: 322

Verbal Notification Information

Person Notified: Heinz Joachim, P.E.

Date: April 27, 2023 2:00:00 PM

Of: NYSDOT Region 11

Signature Information

Signature: Malav Shah, P.E. 106620-1

Date: May 24, 2023

Reviewed By: Robert Kemp

Date: May 24, 2023

Attachments: 6

Flagged Elements

Parent Element	Element	Total Quantity	Unit
Span Number : 256			
	107 - Steel Open Girder/Beam	976	ft
	PR831 - Steel Beam End	40	each

Flagged Condition Description

This Yellow Flag No. NB23U4W014 supersedes Yellow Flag No. NB2228W022.

Location: Span 256 Girder G16 at Pier 256 over 3rd Avenue NB

Description: The web of the girder at the upper cope has a 1-3/4" long diagonal crack that extends into a 1/2" diameter corrosion hole. The surrounded web area of 11" H x 3" W has up to 3/16" deep section loss.

There has been no significant change since previous inspection.

The affected member Girder G16 is a load path redundant built-up steel girder consisting of varying web depth x 3/8" thick and two equal leg angles (L 5" x 5" x 1/2") for the top and bottom flanges. The spacing between Girder G15 and G16 is 3'-9.75" on center and 6'-11" on center from G17.

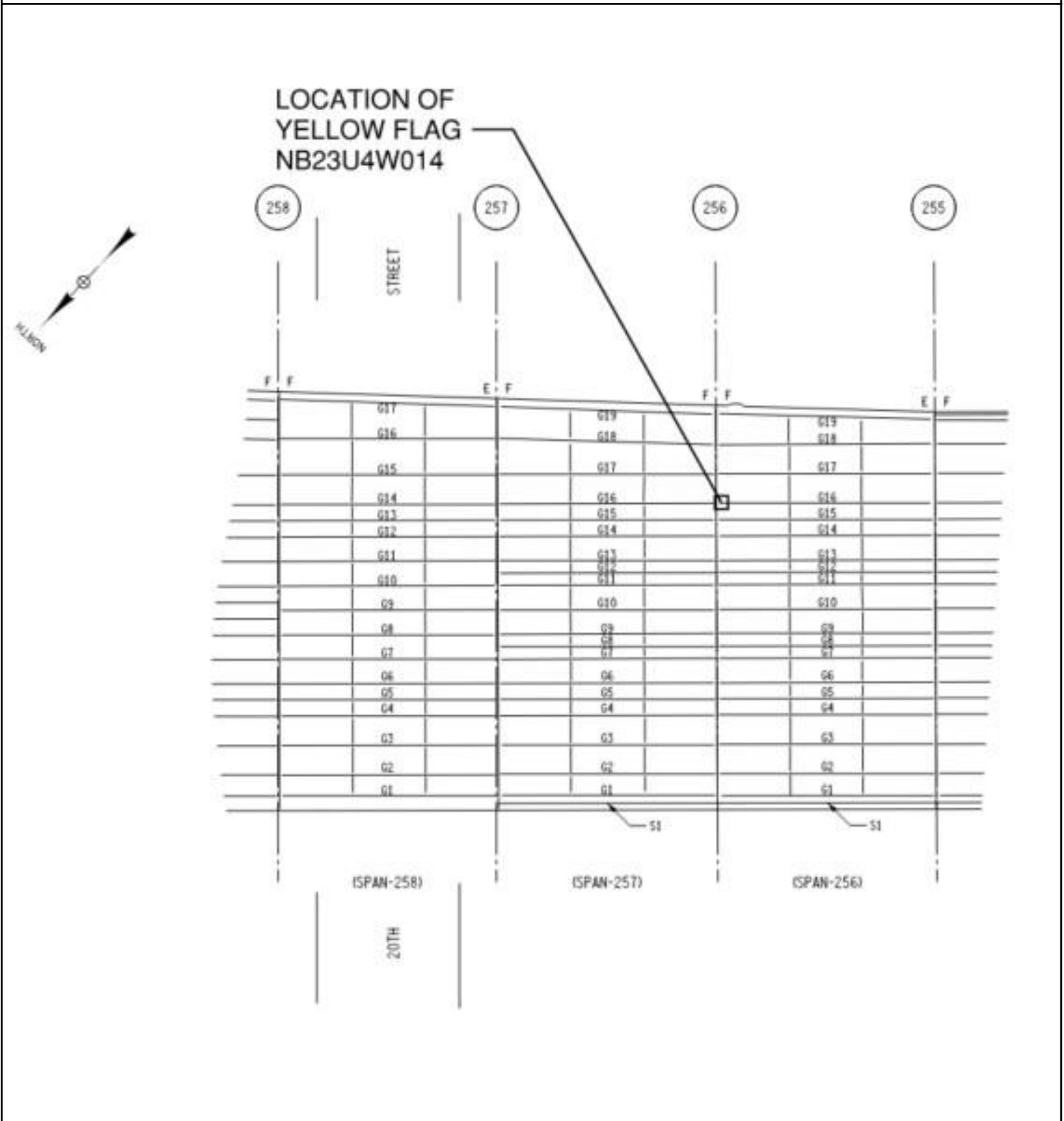
Notes:

1. No deformation was observed in any part of Girder G16 connection to Pier 256 cap beam.
2. The adjacent Girder G15 (left side) is in good condition. Girder G17 (right side) has web repair plates with moderate corrosion along the edges.
3. A right single lane closure on 3rd Avenue Eastbound between 20th and 21st Streets with a 60' bucket truck was used to access platforms installed by contractor for on-going construction/painting work, to inspect this location.

Flag Photographs

Photo Number: 1

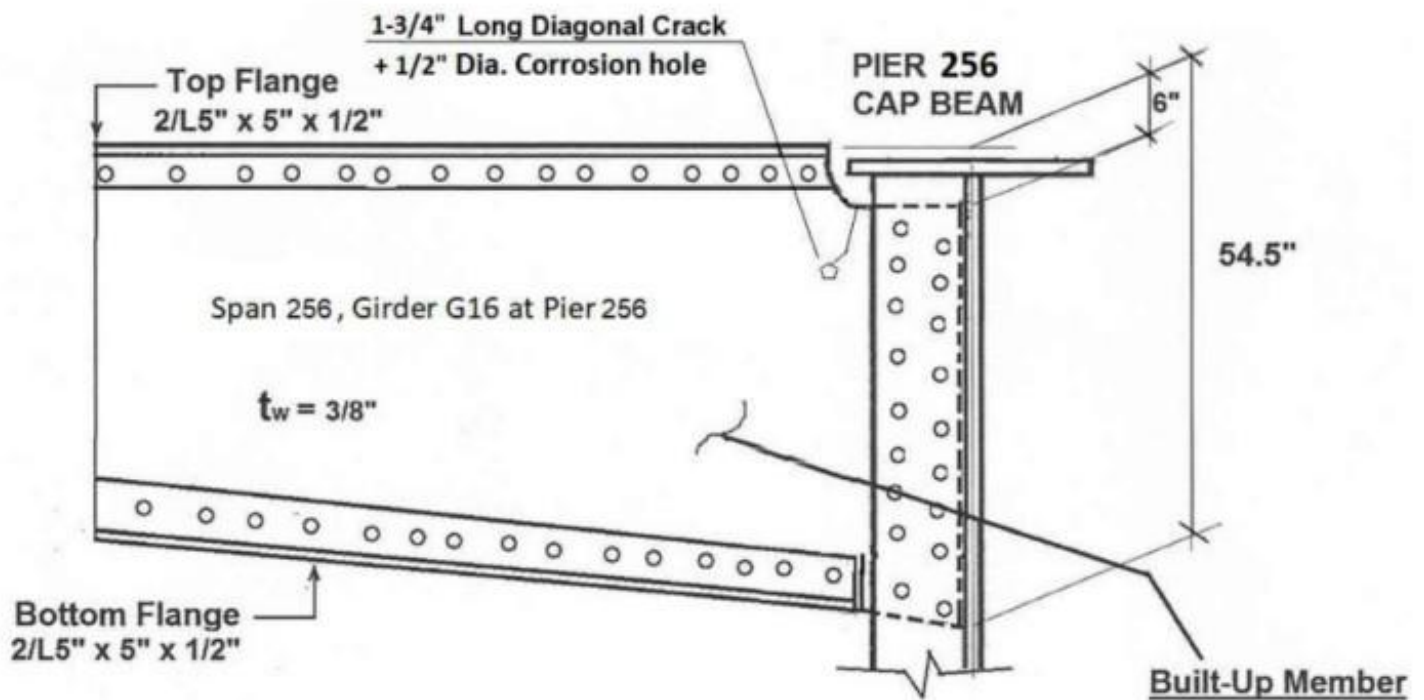
Photo Filename: NB23U4W014 LOCATION PLAN.JPG



Attachment Description: Flag Location Plan

Photo Number: 2

Photo Filename: NB23U4W014 Condition Sketch.JPG



Built-Up Member
Properties

Vary depth web: 54.5" b-tob Ls at Piers 255 and 256 and 33" at midspan.

Web thickness = 3/8"

Bottom and Top Flanges are two equal leg angles L 5" x 5" x 1/2"

SKETCH FOR YELLOW # NB23U4W014
SPAN 256, GIRDER G16 AT PIER 256
(LOOKING LEFT)
N.T.S

Attachment Description: Flag Condition Sketch

Photo Number: 3

Photo Filename: SP 256 G16 @ P256 GV.JPG



Attachment Description: General View of Flag Location. Looking End

Photo Number: 4

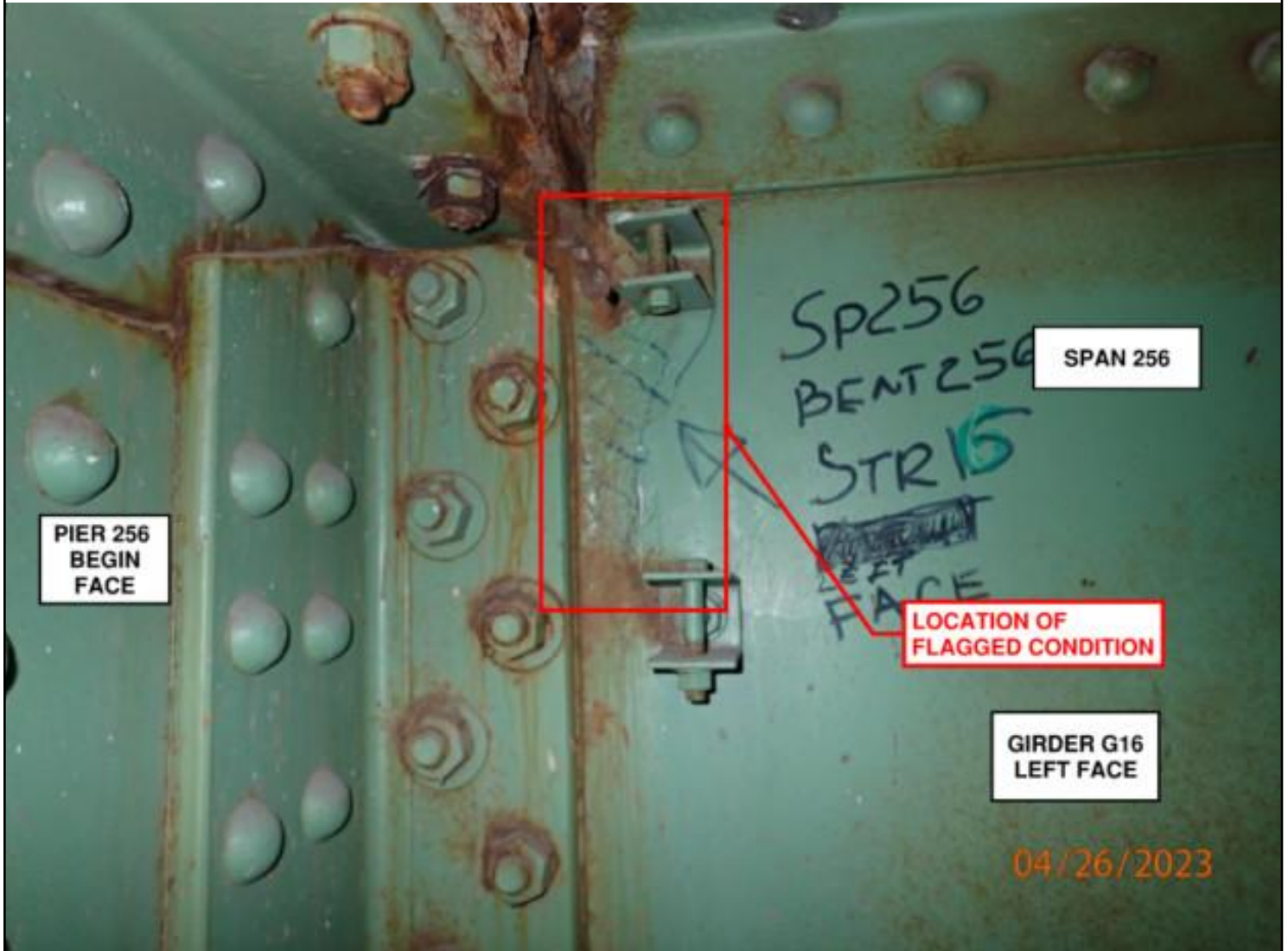
Photo Filename: P4262621.JPG



Attachment Description: General View of the Girder End with flagged condition. Looking End-Right.

Photo Number: 5

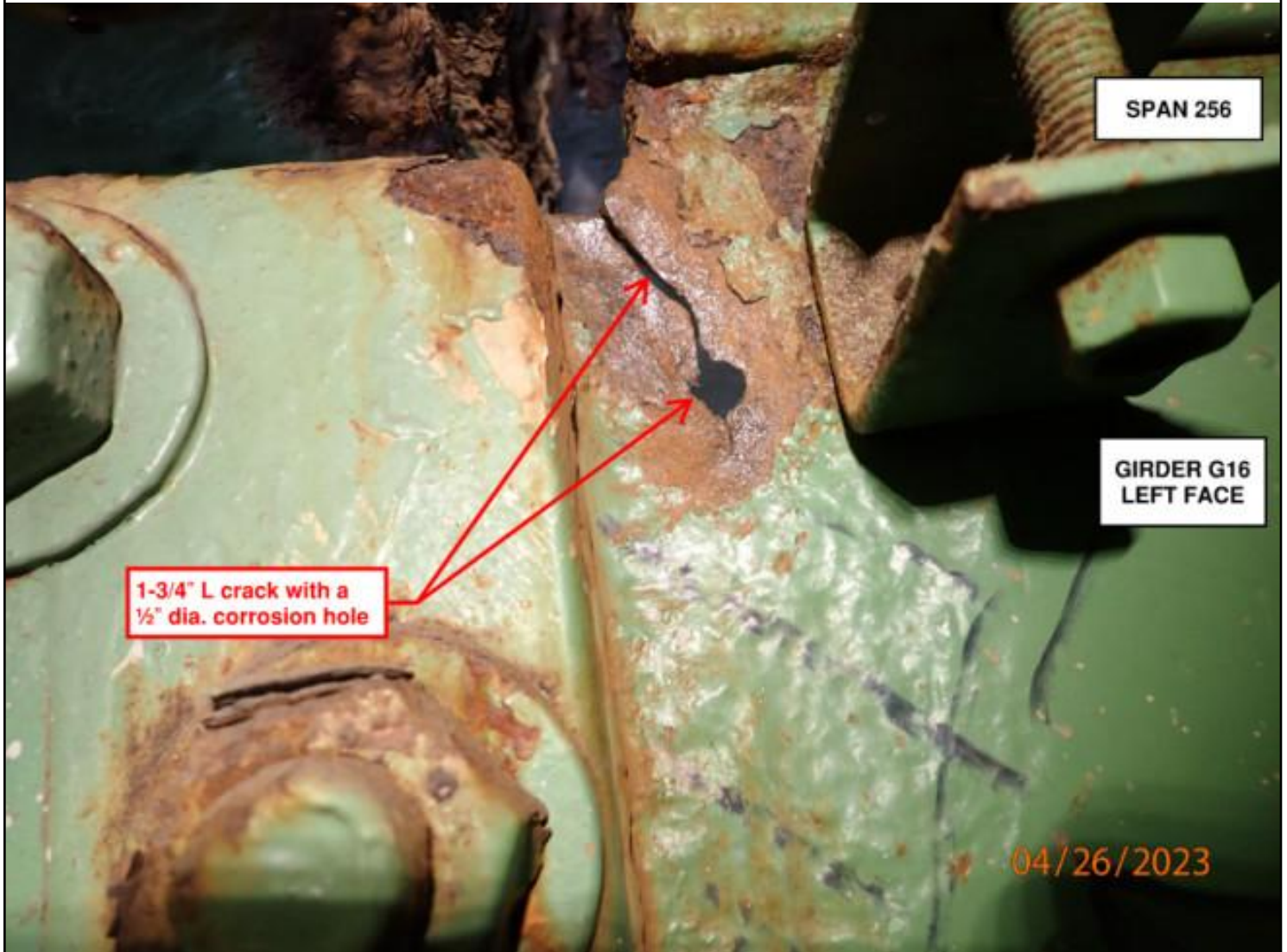
Photo Filename: P4262622.JPG



Attachment Description: Close up view of flagged condition. 1-3/4" L crack with a 1/2" dia. corrosion hole with up to 3/16" SL in surrounding area of 11" H x 3" W. Looking Right.

Photo Number: 6

Photo Filename: P4262625.JPG



Attachment Description: Close up view of flagged condition. 1-3/4" L crack with a 1/2" dia. corrosion hole at upper cope of Girder web. Looking Right.